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(54) NEUROPSIN, DNA, RECOMBINANT
MANIFESTATION VECTOR, TRANSFORMANT
AND PRODUCTION OF NEUROPSIN

(57) Abstract:

PURPOSE: To provide a new neuropsin having a specific amino acid sequence, specifically manifested in the hippocampus of the brain, participating in the proliferation of nerve system cells, transmission of information, memory and learning actions of the brain, etc., and useful as an agent for the treatment of cerebral diseases, a clinical diagnostic agent, etc.

CONSTITUTION: This new neuropsin has an amino acid sequence containing the amino acid sequence of formula and is specifically manifested in the hippocampus of the brain. The substance participates in the functions such as the proliferation of nerve system cells, transmission of information, memory and learning actions of the brain, etc., to contribute to the research of these functions and is useful as an agent for the treatment of cerebral diseases, a clinical diagnostic agent, etc. The protein can be produced by extracting

an mRNA from the hippocampus of a Balb/c mouse by conventional method, preparing a cDNA library using the mRNA as a template, cloning by PCR method using a synthetic primer corresponding to the regions of the amino acid residues His⁶⁵ to Ser²¹³ in the serine protease region of a nerve growth factor (NGF- γ), integrating the obtained DNA into a vector and manifesting in a host.

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Pro: Gly Ala Pro Trp Pro Cys Ala Ile Glu Pro Trp His Leu Leu
          5              20              35
Leu Leu Phe Met Gly Ala Trp Phe Gly Leu Ile Arg His Glu His
          40              55              70
Ser Pro His Leu Gly Glu Gly Arg Glu Cys His Pro His Ser Glu Pro
          85              100             115
          |
          |
          |
Val Ser His Gly Ser Asp Trp Cys Gly Lys Trp His His Pro Gly
          120             135             150             165
Val Trp Thr Lys Glu Cys Arg Trp Val Leu Trp His Lys Lys His
          180             195             210             225
His Asp His Arg Asp
          240

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